NORTH PACIFC GROUND FISH OBSERVER PROGRAM

CRAB IDENTIFICATION

The Key Contains 20 Species or Species Groups

Eight Prohibited Species of Crab

- Must be measured and sexed by groundfish observers if found in species composition sample
- May not be consumed or retained on vessel

Twelve Non-Prohibited Species

Prohibited Species Crabs

ightarrow

Tanner Crabs

Shallow Water Tanner Crabs

- Bairdi Tanner crab
- Opilio Tanner crab

King Crabs

Shallow Water King Crabs

- Red King crab
- Blue King crab

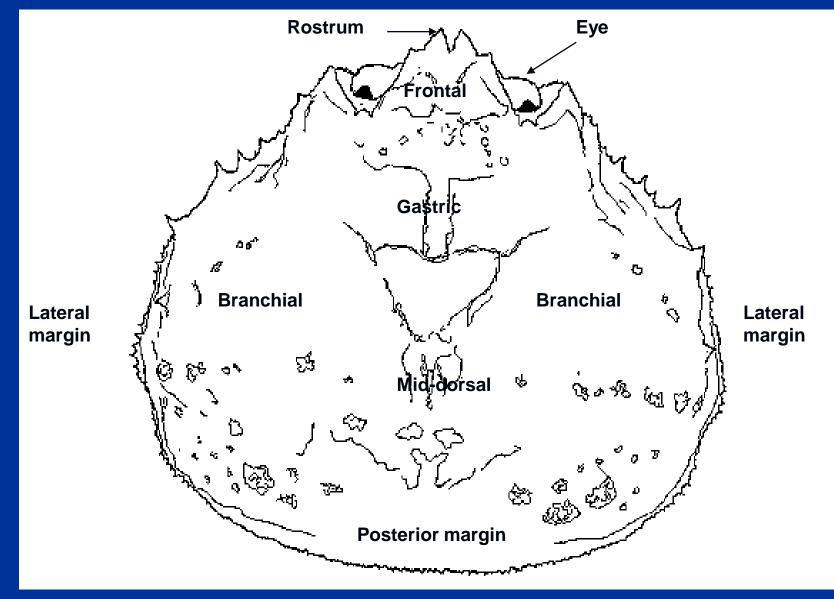
Deep Water Tanner Crabs

- Tanneri Tanner crab
- Angulatus Tanner crab

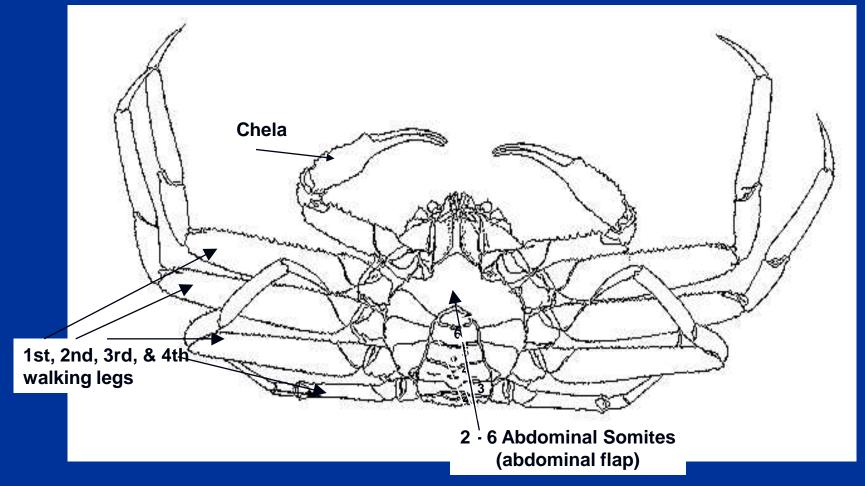
Deep Water King Crabs

- Brown King crab
 - Couesi King crab

Key Features of Tanner Crab Carapace



Key Features of Ventral Side of Tanner Crabs



(L.S. Jademec)

Who's Who among Tanner Crabs? Deep Water? Shallow Water?



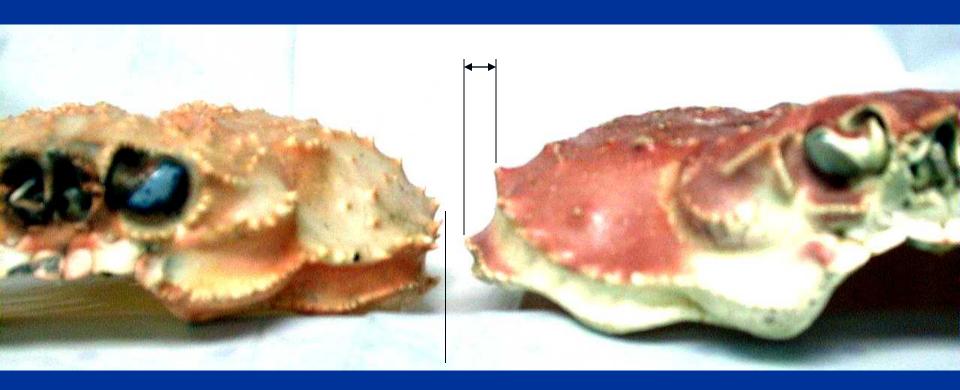
Shallow Vs. Deep Water Tanners

	Deep Water	Shallow Water
Lateral Margin	Does NOT protrude beyond Branchial region	Does protrude beyond Branchial region
Branchial Ridges	Prominent branchial ridges	Not prominent
Coloration	Coloration Uniform	Ventral coloration light

Lower Lateral Margins

Deep water

Shallow Water



Branchial Regions & Ridges

Deep water

Shallow Water

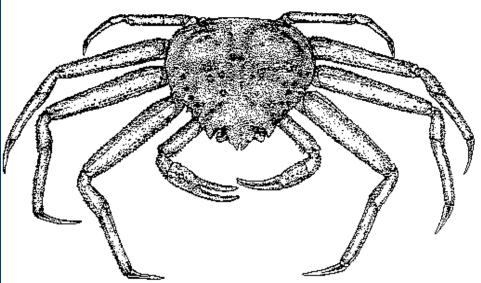


SHALLOW WATER TANNER

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Bairdi Tanner Crab

1. 4 pairs of walking legs



- 2. Lower lateral margin protrudes beyond branchial region
- 3. Carapace wider than it is long



Eyes usually **RED**

- 4. Prominently notched epistomal margin "M"
- 5. Tips of rostrum sharply pointed
- 6. Rostrum pointed upward



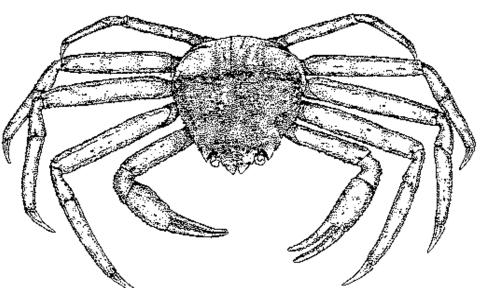
Bairdi Tanner Crab





Opilio Tanner Crab

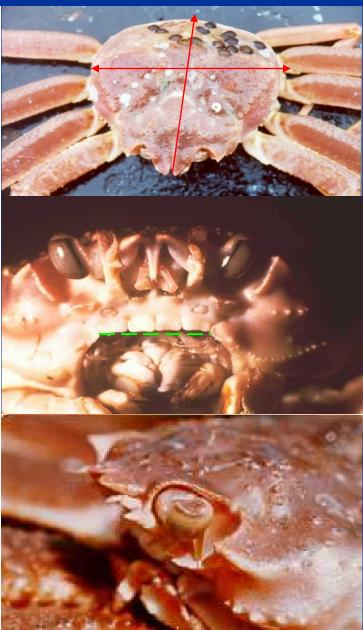
1. 4 pairs of walking legs



- 2. Lower lateral margin of carapace extends beyond margin of branchial region
- 3. Carapace width & length about equal

Eyes usually GREEN

- 4. Epistomal margin fairly straight & even
- 5. Tips of rostrum rounded
- 6. Rostrum almost horizontal



Opilio Tanner Crab





Opilio or Bairdi



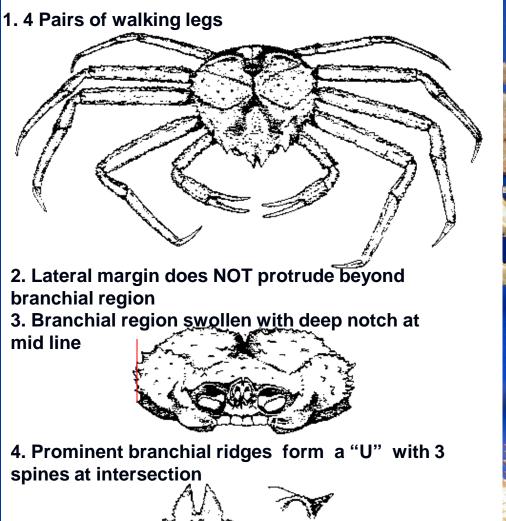






Deep Water Tanner Crab

Tanneri Tanner crab



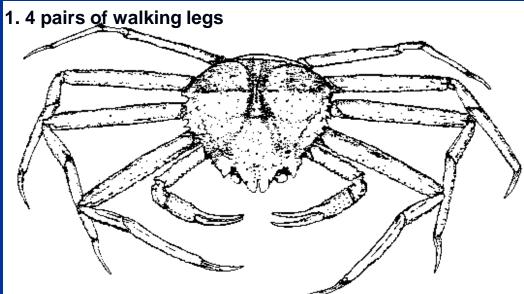
- 5. Tips of rostrum sharply pointed and pointed upward

Tanneri tanner crab





Angulatus Tanner crab



2. Lateral margin does NOT protrude beyond branchial ridge 3. Branchial region slightly swollen with shallow notch at mid line



4. Prominent branchial ridges form triangular point or "V" with a single spine at the intersection

5. Tips of rostrum frequently rounded and usually horizontal







Tanneri or Angulatus



Angulatus and Tanneri





Sexing Tanner crabs



Female Tanner with Eggs



King Crab

Shallow Vs. Deep Water King Crabs

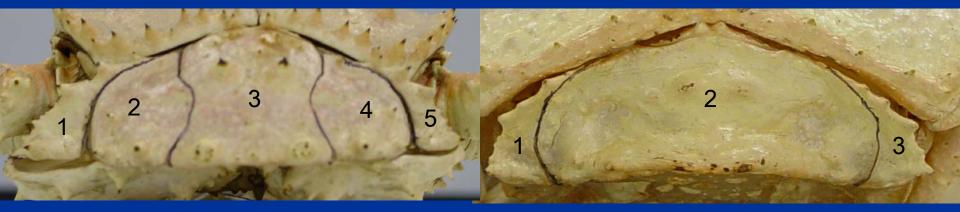
Page 3, couplet 9 of Crab Key

Deep Water Kings	Shallow Water Kings
3 Abdominal plates on 2nd abdominal segment	5 Abdominal plates on 2nd abdominal segment
Rostrum forked	Rostrum ending in a single thorn-like spine
Ventral rostrum spine	NO ventral spine
Dark ventral side	Light ventral side

KING CRAB

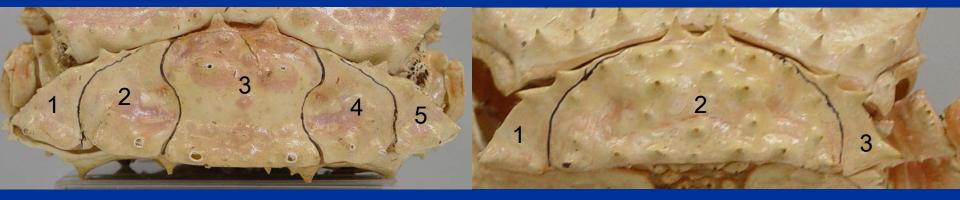
Shallow Water

Deep Water



5 plates

3 plates



Second Abdominal Flap

KING CRAB

Rostrum

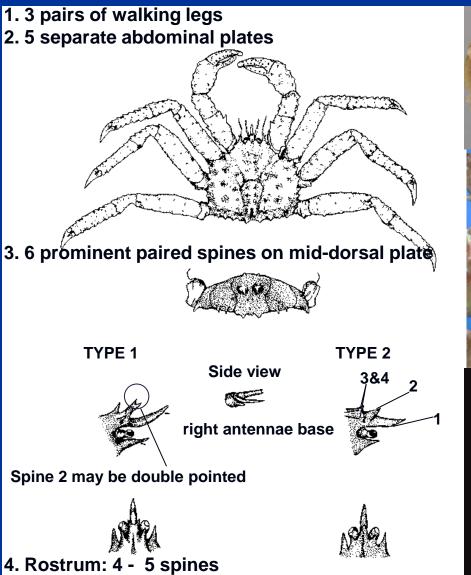
Shallow Water

Deep Water





Red King crab page 4, couplet 10, Crab Key



5. 1-2 spines at base of antennae



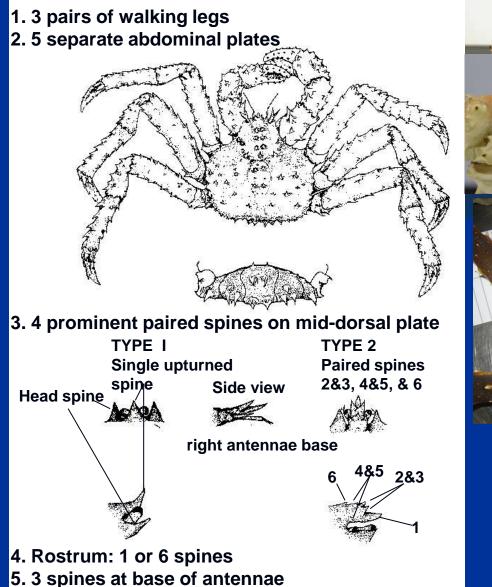
Red King crab





Blue King crab

Page 4, couplet 10 Crab Key





Blue King



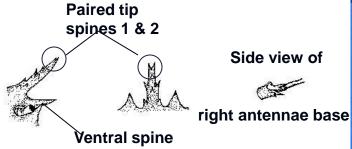




Golden or Brown King crab

- 1. 3 pairs of walking legs 2. 3 separate abdominal plates
 - 5-9 prominent spines on mid-dorsal plate
- 3. 5-9 prominent spines on mid-dorsal plate 4. Rostrum has 9-10 spines with a ventral spine





5. Transverse depression much longer than wide6. Spines on lateral margin of carapace are about equal in length to those on carapace surface





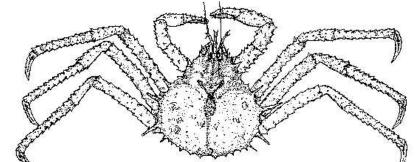
Golden or Brown King Crab





Couesi King crab

- 1. 3 pairs of walking legs
- 2. 3 separate abdominal plates



3. 4-6 prominent spines on narrow mid-dorsal plate4. 5-7 spines on rostrum, tip is usuallydouble pointed, includes a ventral spine



Rostrum tip usually double pointed



Side view of antennae



- 5. Transverse depression length & width about equal
- 6. Long spines on lateral margin of carapace





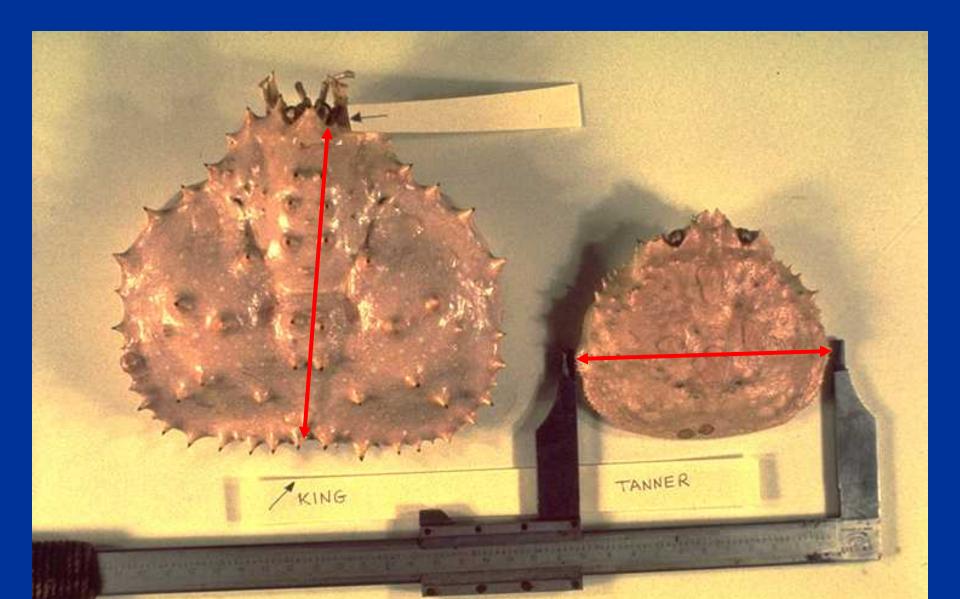


Couesi King crab



Sexing King crabs

Measuring crabs



Measuring Tanner Crabs

Measuring King Crabs

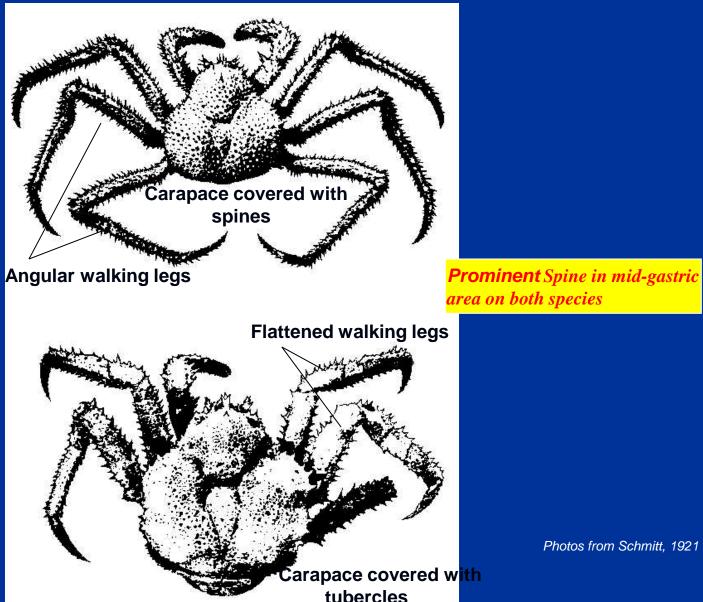
Species name	Haul number		Species name	Haul number
Opilio	65		Red King .	65
Males	Females .		Males	Females
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		43		
		38		
		33	1	
		28		
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		18		1
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	Service - North Pacific Groundish Observ	Stall		

Measured length is 93 mm.

Non Prohibited Species of Crab Found in Your Key

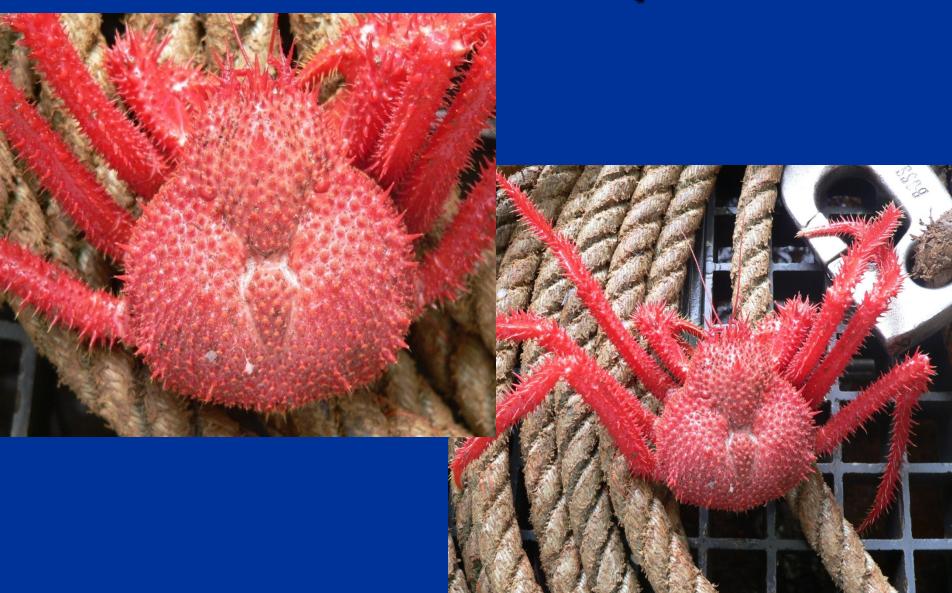
 Paralomis multispina Paralomis verrilli Dungeness crab Korean Horsehair crab Telmessus crab Lyre crabs & Toad crabs Scaled crab •Box crab Decorator crab •Hermit crab Fuzzy crab Rhinoceros crab

Paralomis Crabs

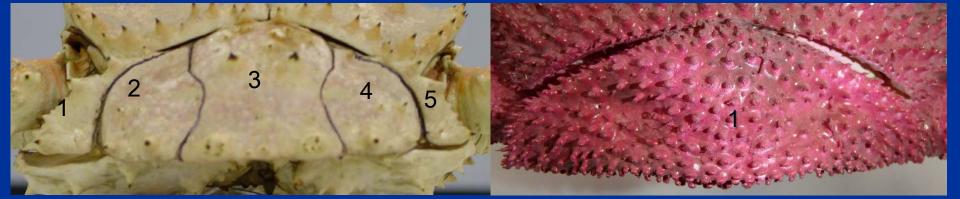


Photos from Schmitt, 1921

Paralomis *multispina*



KING CRAB vs PARALOMIS2nd abdominal flap2nd abdominal flapShallow King5 plates1 plate



Deep King 3 plates



Paralomis verrilli

Take Photos



Dungeness Crab

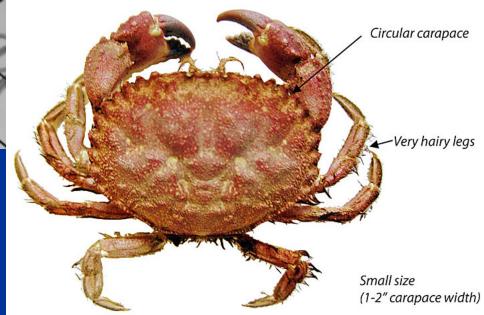


- **1**. 10 spines on front margin of carapace.
- **2**. Carapace smooth and oval shaped.
- **3**. Mostly caught in SE Alaska.

Pygmy Crab



Pygmy rock crab Cancer oregonensis



- 1. Tiny crab.
- 2. Black tipped claws.

Korean Horsehair crab





1. 7 spines posterior of eye that point forward.

2. White tipped claws.



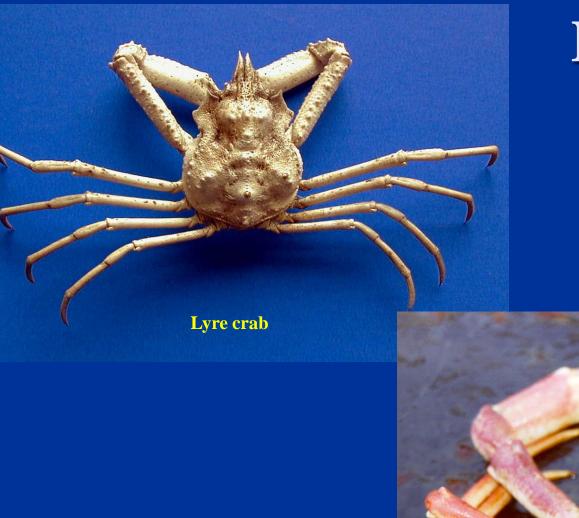
Telmessus crab



1. Black tipped claws.2. 6 spines posterior of eye that point laterally.







Lyre crabs

Genus Hyas

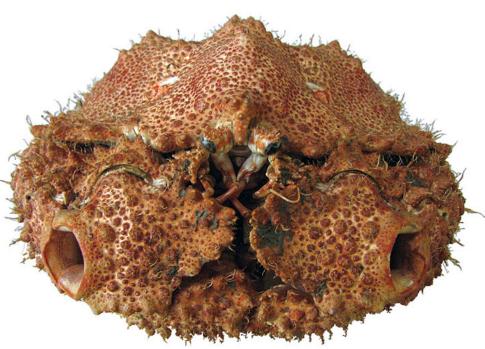


Scaled crab





Box crab



1. Box shaped and heavily calcified carapace.2. Breathing ports on claws.





Decorator Crab



Hermit crab







- 1. Abdomen not segmented or calcified.
- 2. Claws usually orange.

Rhinoceros Crab

- 1. Triangular carapace.
- **2**. Round ball surrounded by deep semicircular grooves.



Lab Time!

Crab Identification